

Claims

1. A recovery method of an electric appliance, comprising the steps of displaying a mark or a symbol to a manually scrapped component capable of being disassembled by a tool or manually without disassembling or crushing by machine at the time of discard or recovery after use, scrapping the manually scrapped component from a product by a tool or manually before disassembling or crushing by machine at the time of discard or recovery after use, and crushing the residual product by machine after scrapping the manually scrapped component, characterized in that display of the mark or the symbol is a mark or a symbol capable of separation into plural kinds of substance on which a cost burden is imposed and valuable substance after recovery.

2. A recovery method of an electric appliance as claimed in claim 1, characterized in that in a mark or a symbol capable of separation into plural kinds, a mark or a symbol is attached to at least any of a trouble component damaging a crushing machine, a trouble component including a substance causing an obstacle to a run of a machine and a trouble component including a substance having a bad influence on environment, and also another mark or symbol is attached to any of a component including a substance having recovery value and a valuable recycled component.

3. A recovery method of an electric appliance as claimed in claim 1 or 2, characterized in that scrapping of a manually

scrapped component to which a mark or a symbol is displayed is scrapping of a component to specified scrapping order or a component within specified time.

4. A recovery method of an electric appliance as claimed in claim 3, characterized in that a position of a manually scrapped component or specified scrapping order or scrapping time in the case of scrapping the manually scrapped component to which a mark or a symbol is displayed are preset and also setting of this set position or order or time can be changed by communication means or input means.

5. A recovery method of an electric appliance, comprising the steps of presetting and displaying plural kinds of manually scrapped components capable of being disassembled by a tool or manually without disassembling or crushing by machine at the time of discard or recovery after use, scrapping the manually scrapped components from a product by a tool or manually before disassembling or crushing by machine at the time of discard or recovery after use, and performing crushing by machine after scrapping the manually scrapped components, characterized in that the display is performed on a display device provided in an electric appliance by reading from storage means or receiving information from the outside through communication means.

6. A recovery method of an electric appliance, comprising the steps of displaying a manually scrapped component capable of being disassembled by a tool or manually without disassembling

or crushing by machine at the time of discard or recovery after use on a preset display device, scrapping the manually scrapped component from a product by a tool or manually before disassembling or crushing by machine at the time of discard or recovery after use, and performing crushing by machine after scrapping the manually scrapped component, characterized in that setting of display of the display device can be changed by communication means or input means.

7. A recovery method of an electric appliance, comprising the steps of setting time for scrapping a manually scrapped component capable of being disassembled by a tool or manually without disassembling or crushing by machine at the time of discard or recovery after use, providing notification of arrival at scrapping time preset before scrapping during scrapping of the manually scrapped component, and performing crushing by machine after scrapping the manually scrapped component, characterized in that setting of the scrapping time set can be changed by communication means or input means.

8. An electric appliance characterized in that in the case of recovering a product after use, according to disposal of recovery, plural kinds of marks are attached to a component removed previously by a tool or manually before crushing by machine or are stored by different symbols in storage means provided in the product and the component is distinguished from other components.

9. An electric appliance as claimed in claim 8, characterized in that in a previously removed component, accumulated transition of value of the removed component is obtained with respect to a lapse of time taken for removal and is compared with time work cost of a previous removal process and thereby an object component is determined.

10. An electric appliance as claimed in claim 8 or 9, characterized in that a previously removed component includes a trouble component which may cause trouble in the case of being put into a crushing machine, or a trouble component made of raw material having an influence on environment, or a valuable component with value of presence of rare metal etc., or a plastic component and also, a mark or a symbol indicating trouble is attached to the trouble component and a mark or a symbol indicating value is attached to the valuable component.

11. An electric appliance as claimed in claims 8, 9 or 10, characterized in that a plastic component among previously removed components can be removed by the same method, for example, the same removal direction.

12. An electric appliance as in any of claims 8 to 11, characterized in that a mark or a symbol representing recyclability and a material code are together attached to a plastic component among previously removed components.

13. An electric appliance as claimed in claim 12, characterized in that a mark representing recyclability and

a material code are described by a convex or concave character with respect to a component and this convex or concave character is described in a direction capable of reading as a correct character on the front side of a component for an opaque component and reading as a correct character on the front side of a component or a correct character on the back side of a component when viewed from the front for a transparent component.

14. An electric appliance as in any of claims 8 to 13, characterized in that an object component list of a previously removed component or an instruction diagram of a manual disassembling procedure is displayed or stored in a predetermined place of a product or a predetermined specific component.

15. An information system of an electric appliance, comprising design input means which can input structure design of the electric appliance and also can preset plural kinds of manually scrapped components capable of being disassembled by a tool or manually, the components being partial components of this structure, storage means for previously storing raw material unit prices of the plural manually scrapped components and scrapping time every component, and display means for displaying accumulation of the value amounts of manually disassembled components with a manual scrapping time lapse of the electric appliance from component information about plural components which can be manually disassembled and are inputted

from the design input means and information stored in the storage means, characterized in that the design input means, the storage means and the display means are connected through communication means.

16. An information system of an electric appliance as claimed in claim 15, characterized in that in the case of discarding an electric appliance, a range of a manually scrapped component can be changed and also information stored can be updated.

17. A recovery apparatus of an electric appliance, comprising set value input means for presetting scrapping time of plural kinds of manually scrapped components capable of being disassembled by a tool or manually inside a structure of an electric appliance and also presetting the value amounts of the plural kinds of the manually scrapped components, calculation means for obtaining accumulation of the value amounts of the plural manually scrapped components with a scrapping time lapse of the appliance, and display means for displaying or recording to provide notification that scrapping cannot be performed within the preset scrapping time by accumulation of the value amounts every the scrapping time lapse.

18. A recovery apparatus of an electric appliance, comprising setting means for presetting scrapping time for manually scrapping plural kinds of manually scrapped components capable of being disassembled by a tool or manually without

disassembling or crushing by machine at the time of discarding an electric appliance or recovering the electric appliance after use, display means capable of displaying kinds, positions, counts or scrapping procedures of the manually scrapped components by reading from the setting means or reading from storage means provided in the electric appliance or receiving information from the outside through communication means, and timer means for measuring work time for scrapping the plural kinds of manually scrapped components displayed by the display means and also providing notification of time of the preset scrapping time.

19. A recovery apparatus of an electric appliance as claimed in claim 17 or 18, characterized by comprising time value record means for recording the value amounts of manually scrapped components of plural kinds preset as the accumulated amount with a scrapping time lapse.

20. A recovery apparatus of an electric appliance as claimed in claim 17 or 18, characterized by comprising scrapping time record means for recording scrapping time of manually scrapped components of plural kinds preset.

21. A recovery apparatus of an electric appliance as claimed in claim 17 or 18, characterized in that setting means or display means or time value record means or scrapping time record means can make setting or display or recording remotely through a communication system.